

Multiple python versions

pyenv

- <https://realpython.com/intro-to-pyenv/>
- <https://askubuntu.com/questions/682869/how-do-i-install-a-different-python-version-using-apt-get>

Installation

For fully automated installation:

```
curl https://pyenv.run | bash
```

Manual installation steps:

```
git clone https://github.com/pyenv/pyenv.git ~/.pyenv

echo 'export PYENV_ROOT="$HOME/.pyenv"' >> ~/.bashrc
echo 'command -v pyenv >/dev/null || export PATH="$PYENV_ROOT/bin:$PATH"' >>
~/.bashrc
echo 'eval "$(pyenv init -)"' >> ~/.bashrc

# Restart shell to apply new PATH variable
exec "$SHELL"
```

Install plugins

```
git clone https://github.com/pyenv/pyenv-update.git $(pyenv
root)/plugins/pyenv-update
git clone https://github.com/pyenv/pyenv-virtualenv.git $(pyenv
root)/plugins/pyenv-virtualenv
```

Install Python build dependencies

```
sudo apt update; sudo apt install build-essential libssl-dev zlib1g-dev \
libbz2-dev libreadline-dev libsqlite3-dev curl \
libncursesw5-dev xz-utils tk-dev libxml2-dev libxmlsec1-dev libffi-dev
liblzma-dev
```

Install additional Pythons

```
# list of all available versions
pyenv install -l

pyenv install 3.11
```

Usage

```
$ python3 --version
Python 3.9.2

$ pyenv global 3.11

$ python3 --version
Python 3.11.4

$ pyenv global system

$ python3 --version
Python 3.9.2
```

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